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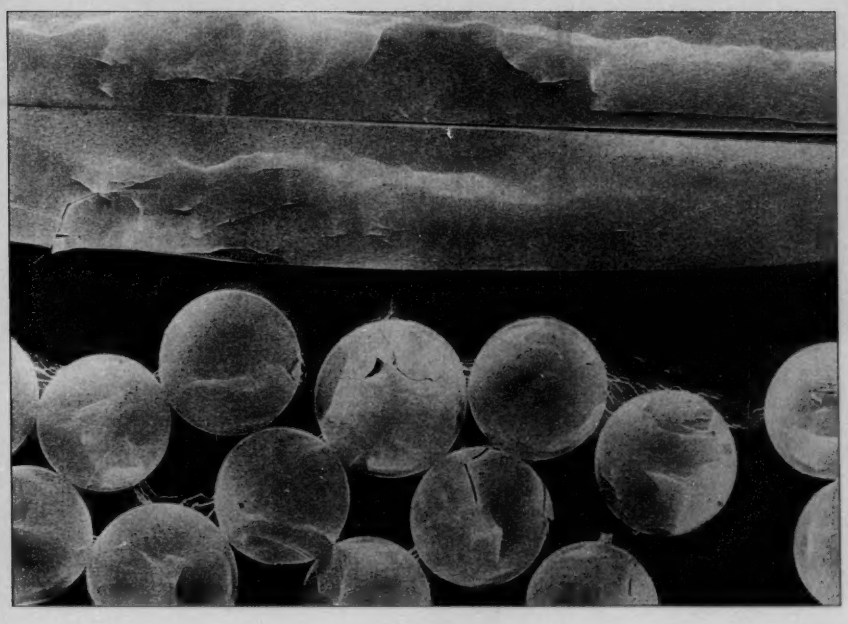

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- Fission reactor materials, including fuels, cladding, core structures, pressure vessels, moderator and control components; fission product behavior.
- Materials aspects of the fabrication and reprocessing of fuels.
- Performance of nuclear waste materials, glasses and ceramics, immobilization of wastes.
- Fusion reactor materials, including first walls, blankets, insulators, and magnets.
- Neutron radiation effects in materials, including defects, microstructures, transmutations, phase changes, and macroscopic properties.
- Interactions of plasmas, ion beams, electron beams and electromagnetic radiation with materials.

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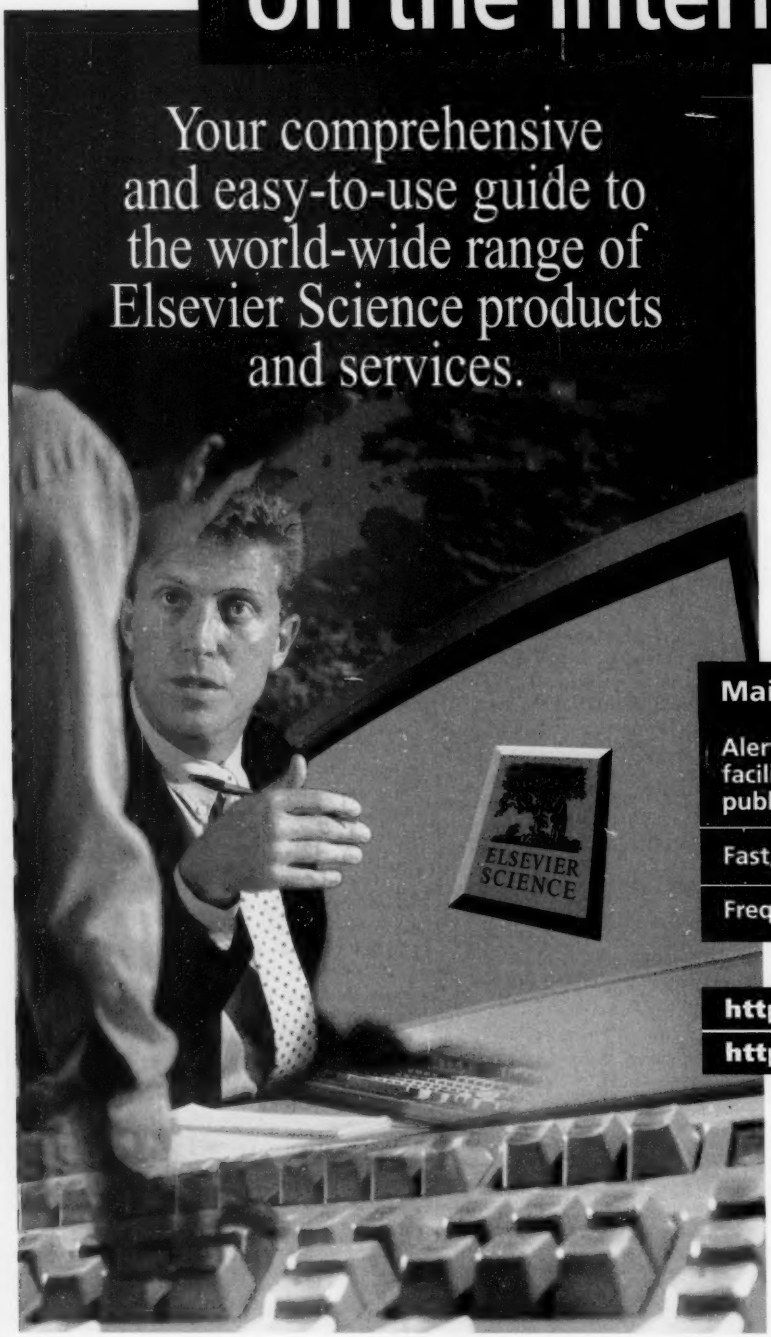

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Dislocations in Solids, Volume 10

$L1_2$ Ordered Alloys

edited by **F.R.N. Nabarro** *and* **M.S. Duesbery**

A substantial part of this volume is devoted to the plastic properties of alloys having the ordered $L1_2$ structure, typified by Ni_3Al. These structures are of engineering importance because they form an essential constituent, and in modern alloys, the major constituent, of superalloys.

The volume opens with a historical introduction by one of the pioneers of the subject who had already observed the anomalous temperature dependence of these structures in 1967. The following chapters deal with a variety of aspects of these alloys including the dislocation arrangements which are revealed by transmission electron microscopy; the anomalous plastic properties of these alloys, especially the positive temperature dependence of flow stress to the structure of the dislocation cores; the theory which considers the way in which dislocations in $L1_2$ become pinned at certain points and the way in which these pinning obstacles can be overcome; the link to the theory of phase transitions. This part of the book ends with a discussion paper on a model which, the authors claim, puts too much emphasis on the anisotropy of the flow stress and too little on other observations. The final two chapters deal with: the effects of electronic excitation on the plasticity of semiconducting crystals and the role of dislocations in melting, exploiting the old idea that the presence of small dislocation loops in thermal equilibrium reduces the energy required to form more loops, so leading to a first-order phase transition.

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55. The role of dislocations in melting *(B. Joós)*.
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